ELSEVIER

Carbohydrate Research 266 (1995) C13–C15

CARBOHYDRATE RESEARCH

CONTENTS

Reliability of assigning O–H · · · O hydrogen bonds to short intermolecular O · · · O separations in cyclodextrin and oligosaccharide crystal structures: addendum
T. Steiner and W. Saenger (Berlin, Germany) 1

Crystal structure of an Amadori compound, *N*-(1-deoxy-β-D-fructopyranos-1-yl)-glycine ("D-fructose-glycine")
V.V. Mossine, G.V. Glinsky, C.L. Barnes and M.S. Feather (Columbia, MO, USA) 5

On the conformational and packing behaviour of acyclic sugar amphiphiles: the crystal structures of *N*-(1-octyl)-D-arabinonamide and *N*-(1-dodecyl)-D-ribonamide and the supramolecular assembly-forming properties of *N*-(1-octyl)-D-pentonamides
C. André, P. Luger, R. Bach and J.-H. Fuhrhop (Berlin, Germany) 15

Isolation and charaterization of hexasaccharides derived from heparin. Analysis by HPLC and elucidation of structure by ^{1}H NMR
A. Larnkjaer, S.H. Hansen and P.B. Østergaard (Gentofte, Denmark) 37

Assessment of methanolysis for the determination of composite sugars of gelling carrageenans and agarose by HPLC
B. Quemener, M. Lahaye and F. Metro (Nantes, France) 53

Structural studies of *O*-sulfated D-glucosamines. The crystal and molecular structures of 2-amino-2-deoxy-α/β-D-glucopyranose 3-sulfate (free acid) and 2-amino-2-deoxy-β-D-glucopyranose 6-sulfate (free base)
W. Mackie, E.A. Yates (Leeds, United Kingdom) and D. Lamba (München, Germany) 65

Regioselectivity of alkylation of cyclomaltoheptaose (β-cyclodextrin) and synthesis of its mono-2-*O*-methyl, -ethyl, -allyl, and -propyl derivatives
J. Jindrich, J. Pitha (Baltimore, MD, USA), B. Lindberg, P. Seffers (Stockholm, Sweden) and K. Harata (Ibaraki, Japan) 75

Application of a phase transfer reaction to the synthesis of L-fructose
Y. Gizaw and J.N. BeMiller (West Lafayette, IN, USA) 81

Reaction of 2′-deoxyguanosine with glucose
S. Ochs and T. Severin (München, Germany) 87

A partial reductive-cleavage study of the capsular polysaccharide of *Escherichia coli* K57
H. Parolis, S.M.R. Stanley (Grahamstown, South Africa), A. Dell and A.J. Reason (London, United Kingdom) 95

Structure of simusan, a new acidic exopolysaccharide from *Arthrobacter* sp.
S.N. Senchenkova, Y.A. Knirel, L.M. Likhosherstov, A.S. Shashkov, V.N. Shibaev, L.A. Starukhina and V.V. Deryabin (Moscow, Russian Federation) 103

Structural properties of native and sonicated cinerean, a β-(1 → 3)(1 → 6)-D-glucan produced by *Botrytis cinerea*
K.-P. Stahmann, N. Monschau, H. Sahm, A. Koschel, M. Gawronski, H. Conrad, T. Springer (Jülich, Germany) and F. Kopp (Düsseldorf, Germany) 115

Kinetic studies on the oxidation of cellulose and its model compounds by Mn(III)
H. Zhang and S.-M. Park (Albuquerque, NM, USA) 129

Notes

A simple synthesis of *cis*-inositol
S.J. Angyal (Sydney, N.S.W., Australia), L. Odier (Grenoble, France) and M.E. Tate (Osmond, S.A., Australia) 143

Trehalose as a common industrial fermentation byproduct
S.R. Hull, J.S.S. Gray, T.A.W. Koerner and R. Montgomery (Iowa City, IA, USA) 147

Extracellular polysaccharide of *Erwinia chrysanthemi*
J.S.S. Gray, T.A.W. Koerner and R. Montgomery (Iowa City, IA, USA) 153

Regular papers

A ^{13}C and ^{183}W NMR study of the structures of tungstate and molybdate complexes of volemitol
S. Chapelle and J.-F. Verchère (Mont-Saint-Aignan, France) 161

Synthesis of novel bis(glycosyl) ethers as bolaamphiphile surfactants
P. Gouéth, A. Ramiz, G. Ronco, G. Mackenzie and P. Villa (Amiens, France) 171

Stepwise transfer of α-D-Gal*p*-(1 → 3)-β-D-Gal*p*-(1 → 4)-β-D-Glc*p*NAc sequences to 3-OH and 6-OH of distal galactose residues in bi-, tri-, and tetra-antennary asialo-glycans of N-linked complex type
J. Helin, H. Maaheimo, A. Seppo (Helsinki, Finland), A. Keane and O. Renkonen (Herts, United Kingdom) 191

Improved synthesis of glycosylamines and a straightforward preparation of *N*-acylglycosylamines as carbohydrate-based detergents
A. Lubineau, J. Augé and B. Drouillat (Orsay, France). 211

Lipopolysaccharide core region of *Hafnia alvei*: structure elucidation using chemical methods, gas chromatography–mass spectrometry, and NMR spectroscopy
A. Gamian, E. Katzenellenbogen, E. Romanowska (Wroclaw, Poland), U. Dabrowski and J. Dabrowski (Heidelberg, Germany) 221

NMR studies of dextran oligomer interactions with model polyphenols
M.P. Williamson, C. Trevitt and J.M. Noble (Sheffield, United Kingdom) 229

Structural studies of the O-antigen oligosaccharides from two strains of *Moraxella catarrhalis* serotype C
P. Edebrink, P.-E. Jansson, M.M. Rahman, G. Widmalm, T. Holme and M. Rahman (Stockholm, Sweden) 237

Notes

Acetolytic fission of a single glycosidic bond of fully benzoylated α-, β-, and γ-cyclodextrins. A novel approach to the preparation of maltooligosaccharide derivatives regioselectively modified at their nonreducing ends
N. Sakairi, K. Matsui (Saitama, Japan) and H. Kuzuhara (Urawa, Japan) 263

An improved synthesis of an important *S*-sialylnucleoside analogue
B. Smalec and M. Von Itzstein (Parkville, Victoria, Australia). 269

Syntheses, radiolabelling, and kinetic evaluation of 2-deoxy-2-fluoro-2-iodo-D-hexoses for medical imaging
J.D. McCarter, M.J. Adam and S.G. Withers (Vancouver, Canada). 273

Synthesis of methyl *O*-(β-D-galactopyranosyl)-(1 → 3)-*O*-[α-L-fucopyranosyl-(1 → 4)]-2-acetamido-2-deoxy-6-*O*-sulfo-β-D-glucopyranoside sodium salt as a potential ligand for selectin molecules
R. Vig, R.K. Jain and K.L. Matta (Buffalo, NY, USA) 279

Synthesis of GDP-3-acetamido-3-deoxy-α-D-mannose and GDP-3-azido-3-deoxy-α-D-mannose
W. Klaffke (Hamburg, Germany) 285

Mechanism of dextran activation of dextransucrase
J.F. Robyt, D. Kim and L. Yu (Ames, IA, USA). 293

1L-2,3 : 4,5-Bis-*O*-(tetraisopropyldisiloxane-1,3-diyl)-*chiro*-inositol: a useful intermediate for the preparation of several novel cyclitols
F. Tagliaferri, S.C. Johnson, T.F. Seiple and D.C. Baker (Knoxville, TN, USA) 301

Chemotypes of mannose-containing polysaccharides of lichen mycobionts: a possible aid in classification and identification
A.Z.A. Teixeira, M. Iacomini and P.A.J. Gorin (Curitiba-PR., Brazil) 309

Preparation of carboxymethylcellulose sulfate of high degree of substitution
S. Vogt, T. Heinze, K. Röttig and D. Klemm (Jena, Germany) 315

Synthesis of O-protected thiohydroximate-linked pseudodisaccharides
B. Joseph and P. Rollin (Orléans, France) 321

Preliminary communication
Synthetic studies on the lipooligosaccharide Nod Bj-IV ($C_{18:1}$, Fuc, Gro) produced by *Bradyrhizobium japonicum* strain USDA61
S. Ikeshita, Y. Nakahara (Saitama, Japan) and T. Ogawa (Saitama, Tokyo, Japan) C1

Author index C7

Subject index C9

Contents C13